

Claims

1. Adjustable foot for setting up equipment in alignment, comprising:
    - an annular element (1) provided with an axial bore with internal screw thread (4);
    - 5 ◦ a shaft element (2) provided with external screw thread (5) matching the internal screw thread (4), which shaft element (2), when screwed into the bore, can be adjusted in the axial direction with respect to the annular element (1) by turning with respect to the annular element;
    - a support part (6), provided on the top of the shaft element (2), and
    - 10 ◦ a washer (3),

wherein the washer (3) and the support part (6) are each provided with a convex (66) respectively concave (6) surface having essentially the same radius of curvature (R), such that the angle of the washer (3) can be adjusted with respect to the support part (6);

  - 15 characterised in that the top surface (10) of the annular element (1) is made sloping downwards in the radially outward direction, and the support part (6) is provided at the top of the shaft element (2), in that the support part (6) is located completely within a contour determined by the diameter of the external screw thread (5), and in that the external diameter (C) of the washer (3) is at most equal to the external diameter (B) of
  - 20 the second adjustable part (2).
2. Adjustable foot according to Claim 1, wherein the top surface (10) of the annular element (1) tapers in the radially outward direction.
  3. Adjustable foot according to Claim 2, wherein the top surface (10) tapers at an angle of approximately 5° to 15° with respect to the axial axis, this angle preferably
  - 25 being at most approximately 12°.
4. Adjustable foot for setting up equipment in alignment, comprising:
    - a first adjustable part (1) provided with an axial bore with internal screw thread (4);
    - a second adjustable part (2) provided with external screw thread (5) matching the internal screw thread (4), which second adjustable part (2), when screwed into the bore,
    - 30 can be adjusted in the axial direction with respect to the first adjustable part (1) by turning with respect to the first adjustable part (1);
    - a support part (6), provided on the first adjustable part (1) or second adjustable part (2), and

- a washer (3),

wherein the washer (3) and the support part (6) are each provided with a convex (66), respectively, concave (6) surface having essentially the same radius (R) of curvature, such that the angle of the washer (3) can be adjusted with respect to the support part (6);

characterised in that

the external diameter (A) of the first adjustable part (1) is at least 1.4 times the diameter (B) of the matching internal (4) and external (5) screw thread.

5. Adjustable foot according to Claim 4, wherein the external diameter (A) of the first adjustable part (1) is at most 1.9 times the diameter (B) of the matching internal (4) and external (5) screw thread.

6. Adjustable foot according to one of the preceding claims 4-5, wherein the external diameter (A) of the first adjustable part (1) is at most 1.6 times the diameter (B) of the matching internal (4) and external (5) screw thread.

7. Adjustable foot according to one of the preceding claims 4-6, wherein the axial height of the internal screw thread (4) is in the range of 16 - 25 mm.

8. Adjustable foot according to one of the preceding claims, wherein the adjustable foot further comprises a cap (11) with a diameter greater than that of the internal screw thread (4) and/or greater than the diameter of the washer (3).

9. Adjustable foot for setting up equipment in alignment, comprising:

- an annular element (1) provided with an axial bore with internal screw thread (4);
- a shaft element (2) provided with external screw thread (5) matching the internal screw thread (4), which shaft element (2), when screwed into the bore, can be adjusted in the axial direction with respect to the annular element (1) by turning with respect to the annular element (1);

- a support part (6), provided on the top of the shaft element (2), and
- a washer (3),

wherein the washer (3) and the support part (6) are each provided with a convex (66) respectively concave (6) surface having essentially the same radius of curvature (R), such that the angle of the washer (3) can be adjusted with respect to the support part (6); and

- a cap (11) with a diameter greater than the diameter of the internal screw thread (4) and/or greater than the diameter of the washer (3).

characterised in that

the support part (6) is located completely within a contour determined by the diameter of the external screw thread (5), and in that the external diameter (C) of the washer (3) is at most equal to the external diameter (B) of the second adjustable part (2).

5        10. Adjustable foot according to Claim 4 or 9, wherein the diameter of the cap (11) is at least 10 %, in particular at least 25 %, greater than the diameter of the internal screw thread (4) and the diameter of the washer (3), respectively.

10        11. Adjustable foot according to one of the preceding claims, wherein the internal diameter of the cap (11) is greater than the largest of the external diameters of the other parts (1,2,3,6) of the adjustable foot, in particular is approximately 0.5 to 2 % greater than said largest of the external diameters of the other parts (1,2,3,6).

15        12. Adjustable foot according to one of Claim 11, wherein the cap (11) contains a space (32), delimited by the cap (11), which has an axial height (V) that is greater than or equal to the maximum axial length by which the shaft element (2) can protrude from the annular element (1), or at least is intended to protrude at the maximum above the annular element (1).

20        13. Adjustable foot according to Claim 12, wherein the cap (11) extends downwards from the washer (3) below the bottom outer peripheral edge of the washer (3), preferably extends at least approximately 5 to 10 mm below said bottom outer peripheral edge.

25        14. Adjustable foot according to Claim 12 or 13, wherein the axial height of the interior space (V) is at most equal to the axial height (F) of the unit formed by the annular element (1), shaft element (2) and washer (3) when the internal (4) and external (5) screw thread are completely screwed into one another, preferably is less than or equal to 95 % to 99 % of said maximum height.

15. Adjustable foot according to one of the preceding claims, wherein the support part (6) is at least partially, preferably completely, sunken in a zone of the shaft element that is surrounded by the external screw thread (5).

30        16. Adjustable foot according to one of the preceding claims, wherein, viewed in the axial direction, the height of the second adjustable part (2) is less than or equal to the height of the first adjustable part (1) and wherein, viewed in the radial direction, the dimensions of the second adjustable part (2) are completely within the contour determined by the external screw thread (5).

17. Adjustable foot according to one of the preceding claims, wherein the support part has a concave surface (6) and the washer a convex surface (66).

18. Adjustable foot according to one of the preceding claims, wherein the shaft element (2) and the washer (3) are provided with an axial opening for an anchor bolt  
5 (9,17).

19. Adjustable foot according to one of the preceding claims, wherein the axial opening through the washer (3) has a diameter that is approximately 32 to 48 % larger than the diameter of the axial opening through the shaft element (2).

20. Adjustable foot according to one of the preceding claims, wherein the axial  
10 length of the shaft element 2 is equal to or less than the axial height of the annular element (1) and wherein the shaft element (2) is provided with external screw thread (5) along its entire axial length and/or the internal screw thread (4) of the axial bore extends over the entire axial height of the annular element (1).

21. Combination of an adjustable foot according to one of the preceding claims, a  
15 substructure (16), equipment (14) set up in alignment on said substructure (16), and an anchor bolt (17), wherein the equipment (14) is anchored to the substructure (16) by means of the anchor bolt (17), with the adjustable foot between them.

22. Combination according to Claim 21, wherein a bottom surface (8) of the annular element (1) rests on the substructure (16) and wherein the equipment (14) is in  
20 contact with the washer (3) or with the cap (11) which, in turn, is in contact with the washer (3).